DEVELOPING MATHEMATICAL IDEAS (DMI)
OVERVIEW

Developing Mathematical Ideas (DMI) is a curriculum designed to help teachers think through the major ideas of K-6 (K-5 for SD purposes) mathematics and examine how children develop those ideas. The curriculum offers teachers opportunities to:

- explore mathematics in lessons led by facilitators;
- share and discuss the work of their own students;
- plan, conduct, and analyze mathematics interviews of their own students;
- view and discuss videotapes of mathematics classrooms and mathematics interviews;
- write their own classroom episodes;
- analyze lessons taken from innovative elementary mathematics curricula, and
- read overviews of related research.

The major goals of the DMI seminars are to help participants:

- learn more mathematics content
- learn to define and select mathematical objectives for their students
- learn to recognize key mathematical ideas with which their students are grappling
- learn how to support children's mathematical thinking
- learn to appreciate the power and complexity of student thinking
- learn how to ask questions that will help students deepen their mathematical understanding
- learn how to analyze a piece of curriculum for the mathematics students will learn from it
- learn to make more mathematical connections for themselves, enhancing their ability to help their students do so
- learn how to continue learning about children and mathematics

Content to be covered includes

- Number and Operations, Part 1: Building a System of Tens
- Number and Operations, Part 2: Making Meaning for
- Examining Features of Shape
- Measuring Space in One, Two and Three Dimensions
- Working with Data